

Safety Data Sheet

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Revision date:	12/12/2023	Supersedes date:	31/07/2023
Transportation versior	number:	-	

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier 3M Flexible Bumper Patch Kit, 05888

Product Identification Numbers FS-9100-5022-8

7000080200

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

Address:3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.Telephone:+44 (0)1344 858 000E Mail:tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number +44 (0)1344 858 000

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

24-2813-4, 34-4427-0

TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

KIT LABEL

2.1. Classification of the substance or mixture The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319 Skin Sensitization, Category 1 - Skin Sens. 1; H317 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335 Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400 Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

SIGNAL WORD DANGER.

Symbols

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Contains:

cyclohexane; xylene; bis-[4-(2,3-epoxipropoxi)phenyl]propane; 2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane

HAZARD STATEMENTS:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system sensory

H410

Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P102	Keep out of reach of children
P102	Keep out of reach of children

organs.

Prevention:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260A	Do not breathe vapours.
P2/1	Use only outdoors or in a well-ventilated area.
P2/3	Avoid release to the environment.
P280K	Wear protective gloves and respiratory protection.
Response:	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
Disposal:	
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
For containers not exceeding 12	25 ml the following Hazard and Precautionary statements may be used:
<=125 ml Hazard statements	
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system sensory organs.
<=125 ml Precautionary statem	ients
General:	
P102	Keep out of reach of children.
Prevention:	
P260A	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P280K	Wear protective gloves and respiratory protection.
Response:	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
Disposal:	
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
Refer to Safety Data Sheet for co	pmponent % unknown values (www.3M.com/msds).
Revision information:	
GB Label: CLP Ingredients - kit Kit Information: CLP Target Org	components information was modified.
	ym rae switchient intornitution was wreter.

- Section 2: <125ml Hazard Health information was modified.
- Section 2: <125ml Precautionary Prevention information was modified. Section 2: <125ml Precautionary Response information was modified.
- Label: CLP Classification information was modified.
- Label: CLP Precautionary Prevention information was modified.
- Label: CLP Precautionary Response information was modified.
- Label: CLP Target Organ Hazard Statement information was added.
- Section 02: SDS Elements: CLP Supplemental Precautionary Statements information was deleted.



Safety Data Sheet

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This product is defined as an article under REACH and does not require a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006 as amended for Great Britain. Since an SDS is not required, this document does not contain all of the information that is required for substance and mixture SDSs under REACH.

Document group:	24-2813-4	Version number:	4.00
Revision date:	09/01/2024	Supersedes date:	19/02/2016

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M[™] Flexible Bumper Patch PN 05888

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

Address:3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.Telephone:+44 (0)1344 858 000E Mail:tox.uk@mmm.comWebsite:www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

CLASSIFICATION:

This material is exempt from hazard classification according to Regulation (EC) No. 1272/2008, as amended for Great Britain, on classification, labelling, and packaging of substances and mixtures.

2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain Not applicable

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation
			(EC) No. 1272/2008 [CLP], as
			amended for GB
Acrylic foam adhesive	Trade Secret	60 - 85	Substance not classified as hazardous
Thermoplastic Polyolefin Backing	Trade Secret	15 - 40	Acute Tox. 3, H311
			Acute Tox. 3, H301
			Eye Dam. 1, H318

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin contact

No need for first aid is anticipated.

Eye contact

No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

If swallowed

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Not applicable.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Thermoplastic Polyolefin Backing	Trade Secret	Manufacturer	TWA(8 hours):3.2 mg/m3(0.8	SKIN
		determined	ppm)	
UK HSC : UK Health and Safety Commissi	on			

UK HSC : UK Health and Safety Commission TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

8.2. Exposure controls

8.2.1. Engineering controls

Not applicable.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Colour	Black, Brown
Odor	Acrylate
Odour threshold	Not applicable.
Melting point/freezing point	Not applicable.
Boiling point/boiling range	Not applicable.
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	Not applicable.
Flammable Limits(UEL)	Not applicable.
Flash point	Not applicable.
Autoignition temperature	Not applicable.
Decomposition temperature	Not applicable.
рН	substance/mixture is non-soluble (in water)
Kinematic Viscosity	Not applicable.
Water solubility	Nil
Solubility- non-water	Not applicable.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	Not applicable.
Density	Not applicable.
Relative density	Not applicable.
Relative Vapour Density	Not applicable.

9.2. Other information

9.2.2 Other safety characteristics EU Volatile Organic Compounds Evaporation rate Percent volatile

No data available. Not applicable. Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability Stable.

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

<u>Substance</u> Carbon monoxide Carbon dioxide. Oxides of nitrogen. <u>Condition</u> Oxidation, heat or reaction Oxidation, heat or reaction Not specified.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: Toxicological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation No health effects are expected.

Skin contact No health effects are expected.

Eye contact No health effects are expected.

Ingestion No health effects are expected.

Additional information:

This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Thermoplastic Polyolefin Backing	Dermal	Rat	LD50 907 mg/kg
Thermoplastic Polyolefin Backing	Ingestion	Rat	LD50 > 215 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Thermoplastic Polyolefin Backing	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Thermoplastic Polyolefin Backing	In vitro data	Corrosive

Skin Sensitisation

Name	Species	Value
Thermoplastic Polyolefin Backing	Multiple animal species	Not classified

Respiratory Sensitisation

For the component/components, either no data is currently available or the data is not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Thermoplastic Polyolefin Backing	In vivo	Not mutagenic
Thermoplastic Polyolefin Backing	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

For the component/components, either no data is currently available or the data is not sufficient for classification.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Thermoplastic Polyolefin Backing	Ingestion	Not classified for female reproduction	Rat	NOAEL 30 mg/kg/day	premating into lactation
Thermoplastic Polyolefin Backing	Ingestion	Not classified for male reproduction	Rat	NOAEL 30 mg/kg/day	29 days
Thermoplastic Polyolefin Backing	Ingestion	Not classified for development	Rat	NOAEL 30 mg/kg/day	premating into lactation
Thermoplastic Polyolefin Backing	Dermal	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	13 weeks

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
						Duration
Thermoplastic Polyolefin	Inhalation	respiratory irritation	Some positive data exist, but the	similar	Irritation	
Backing			data are not sufficient for	health	Positive	
			classification	hazards		
Thermoplastic Polyolefin	Inhalation	central nervous	Not classified		NOAEL Not	
Backing		system depression			available	

Specific Target Organ Toxicity - repeated exposure

NameRouteTarget Organ(s)Value	Species Test result Exposure Duration

Thermoplastic Polyolefin	Dermal	heart endocrine	Not classified	Rat	NOAEL 250	13 weeks
Backing		system			mg/kg/day	
		hematopoietic				
		system liver				
		nervous system				
		kidney and/or				
		bladder				

Aspiration Hazard

For the component/components, either no data is currently available or the data is not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

11.2. Information on other hazards

Not applicable.

SECTION 12: Ecological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Туре	Exposure	Test endpoint	Test result
Thermoplastic	Trade Secret	Bacteria	Analogous	16 hours	EC10	>10,000 mg/l
Polyolelin Backing			Compound			
Thermoplastic Polyolefin Backing	Trade Secret	Activated sludge	Experimental	N/A	EC50	>1,000 mg/l
Thermoplastic Polyolefin Backing	Trade Secret	Green algae	Experimental	72 hours	ErC50	>400 mg/l
Thermoplastic Polyolefin Backing	Trade Secret	Rainbow trout	Experimental	96 hours	LC50	>120 mg/l
Thermoplastic Polyolefin Backing	Trade Secret	Water flea	Experimental	48 hours	EC50	>120 mg/l
Thermoplastic Polyolefin Backing	Trade Secret	Green algae	Experimental	72 hours	ErC10	>400 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Thermoplastic	Trade Secret	Experimental	28 days	BOD	3 %BOD/ThOD	OECD 301C - MITI test (I)
Polyolefin Backing		Biodegradation				
Thermoplastic	Trade Secret	Modeled Photolysis		Photolytic half-	1.1 days (t 1/2)	
Polyolefin Backing				life(in water)		

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Thermoplastic	Trade Secret	Experimental		Log Kow	-0.3	OECD 107 log Kow shke
Polyolefin Backing		Bioconcentration				flsk mtd

12.4. Mobility in soil

Material Cas No. Test type	Study Type	Test result	Protocol
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Thermoplastic Trade Secret Modeled Polyolefin Backing in Soil	Mobility Koc	6 l/kg	Episuite [™]
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12.5. Results of the PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	No data available.	No data available.	No data available.

Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information.

COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2 None

Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

15.2. Chemical Safety Assessment Not applicable.

SECTION 16: Other information

List of relevant H statements

H301	Toxic if swallowed.
11011	

H311Toxic in contact with skin.H318Causes serious eye damage.

listo causes serious e

Revision information:

EU Section 09: pH information information was added.

GB Section 02: Other hazards phrase information was added.

GB Section 04: Information on toxicological effects information was added.

GB Section 12: Classification Warning information was added.

GB Section 15: Chemical Safety Assessment information was added.

GBSDS Section 14 Transport in bulk - Main Heading information was added.

GBSDS Section 14 UN Number information was added.

Section 1: Product name information was modified.

Section 02: GB Classification Statements information was added.

Label: CLP Classification information was deleted.

Section 2: Other hazards phrase information was deleted.

Section 03: Composition table % Column heading information was added. Section 3: Composition/Information of ingredients table information was added. Section 3: Composition/ Information of ingredients table information was deleted. Section 03: Substance not applicable information was added. Section 4: First aid for eve contact information information was modified. Section 4: First aid for ingestion (swallowing) information information was modified. Section 4: First aid for inhalation information information was modified. Section 04: Information on toxicological effects information was deleted. Section 5: Fire - Advice for fire fighters information information was modified. Section 8: Occupational exposure limit table information was added. Section 8: Occupational exposure limit table information was modified. OEL Reg Agency Desc information was added. Section 8: Personal Protection - Skin/hand information information was modified. Section 8: STEL key information was added. Section 8: TWA key information was added. Section 09: Color information was added. Section 9: Evaporation Rate information information was deleted. Section 9: Explosive properties information information was deleted. Section 09: Kinematic Viscosity information information was added. Section 9: Melting point information information was modified. Section 09: Odor information was added. Sections 3 and 9: Odour, colour, grade information information was deleted. Section 9: Oxidising properties information information was deleted. Section 9: pH information information was deleted. Section 9: Property description for optional properties information was modified. Section 9: Vapour density value information was added. Section 9: Vapour density value information was deleted. Section 9: Viscosity information information was deleted. Section 10: Hazardous decomposition or by-products table information was modified. Section 11: Acute Toxicity table information was modified. Section 11: Classification disclaimer information was deleted. Section 11: GB Classification disclaimer information was added. Section 11: GB No endocrine disruptor information available warning information was added. Section 11: Germ Cell Mutagenicity Table information was added. Section 11: Germ Cell Mutagenicity text information was deleted. Section 11: Health Effects - Eye information information was modified. Section 11: Health Effects - Ingestion information information was modified. Section 11: Health Effects - Inhalation information information was modified. Section 11: Health Effects - Skin information information was modified. Section 11: Reproductive Toxicity Table information was added. Section 11: Serious Eye Damage/Irritation Table information was added. Section 11: Serious Eye Damage/Irritation text information was deleted. Section 11: Skin Corrosion/Irritation Table information was added. Section 11: Skin Corrosion/Irritation text information was deleted. Section 11: Skin Sensitization Table information was added. Section 11: Skin Sensitization text information was deleted. Section 11: Specific Target Organ Toxicity - repeated exposure text information was deleted. Section 11: Specific Target Organ Toxicity - single exposure text information was deleted. Section 11: Target Organs - Repeated Table information was added. Section 11: Target Organs - Single Table information was added. Section 12: 12.6. Other adverse effects information was added. Section 12: 12.7. Other adverse effects information was deleted. Section 12: Classification Warning information was deleted. Section 12: Component ecotoxicity information information was modified. Section 12: Contact manufacturer for more detail. information was deleted. Section 12: Mobility in soil information information was added.

Section 12: No Data text for adverse effects information or Endocrine Disruptors information was added. Prints No Data if Adverse effects information is not present information was deleted. Prints No Data if Bioccumulative potential information is not present information was deleted. Section 12: No PBT/vPvB information available warning information was modified. Section 12: Persistence and Degradability information information was modified. Section 12:Bioccumulative potential information information was added. Section 13: 13.1. Waste disposal note information was modified. Section 13: Standard Phrase Category Waste GHS information was modified. Section 14 Classification Code - Main Heading information was added. Section 14 Classification Code – Regulation Data information was added. Section 14 Control Temperature - Main Heading information was added. Section 14 Control Temperature – Regulation Data information was added. Section 14 Disclaimer Information information was added. Section 14 Emergency Temperature - Main Heading information was added. Section 14 Emergency Temperature – Regulation Data information was added. Section 14 Hazard Class + Sub Risk – Main Heading information was added. Section 14 Hazard Class + Sub Risk - Regulation Data information was added. Section 14 Hazardous/Not Hazardous for Transportation information was added. Section 14 Other Dangerous Goods - Main Heading information was added. Section 14 Other Dangerous Goods - Regulation Data information was added. Section 14 Packing Group - Main Heading information was added. Section 14 Packing Group - Regulation Data information was added. Section 14 Proper Shipping Name information was added. Section 14 Regulations – Main Headings information was added. Section 14 Segregation – Regulation Data information was added. Section 14 Segregation Code - Main Heading information was added. Section 14 Special Precautions - Main Heading information was added. Section 14 Special Precautions - Regulation Data information was added. Section 14 Transport in bulk - Regulation Data information was added. Section 14 UN Number Column data information was added. Section 14: Transportation classification information was deleted. Section 15: Chemical Safety Assessment information was deleted. Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was added. Sectio 16: UK disclaimer information was deleted. Section 16: Web address information was added.

Section 16: Web address information was deleted.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M SDSs for Great Britain are available at www.3M.com/uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.



Safety Data Sheet

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Revision date:	12/12/2023	Supersedes date:	20/06/2023

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M[™] Adhesion Promoter, PN 06396

Product Identification Numbers

70-0706-9843-9 FS-9100-4256-3

7100009578 7000080124

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

Address:3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.Telephone:+44 (0)1344 858 000E Mail:tox.uk@mmm.comWebsite:www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

The aspiration hazard classification is not required due to the product's viscosity.

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319 Skin Sensitization, Category 1 - Skin Sens. 1; H317 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335 Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400 Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

SIGNAL WORD

DANGER.

Symbols

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Ingredient	CAS Nbr	EC No.	% by Wt
cyclohexane	110-82-7	203-806-2	30 - 60
xylene	1330-20-7	215-535-7	25 - 45
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	3388-04-3	222-217-1	< 0.5
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3	216-823-5	< 0.5

HAZARD STATEMENTS:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system sensory organs.
H410	Very toxic to aquatic life with long lasting effects.
PRECAUTIONARY S	FATEMENTS
General: P102	Keep out of reach of children.
Prevention:	Keen away from beat, bot surfaces, sparks, open flames and other ignition sources. No smaking
1210	Reep away nom near, not surfaces, sparks, open names and other ignition sources. No smoking.

P260A P271 P273 P280K	Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and respiratory protection.
Response:	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
Disposal:	
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard staten	nents
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system sensory organs.
<=125 ml Precautionary	y statements
General:	
P102	Keep out of reach of children.
Prevention:	
P260A	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P280K	Wear protective gloves and respiratory protection.
Response:	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
Disposal:	
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2% of the mixture consists of components of unknown acute oral toxicity.2% of the mixture consists of components of unknown acute dermal toxicity.

2.3. Other hazards

None known. This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP], as
			amended for GB
cyclohexane	(CAS-No.) 110-82-7	30 - 60	Flam. L1q. 2, H225
	(EC-No.) 203-806-2		Asp. 10x. 1, H304
			SKIN IITIL 2, H315
			STOT SE 3, H336
			Aquatic Acute 1, H400,M=1
1		0.5 4.5	Aquatic Chronic 1, H410,M-1
xylene	(CAS-No.) 1330-20-7	25 - 45	Flam. Liq. 3, H226
	(EC-No.) 215-535-7		Acute 10x. 4, H332
			Acute 10X. 4, H312
			Skill IIII. 2, IISIS
			Acr. Toy. 1 11204
			ASp. 10X. 1, H504
			Eye IIII. 2, $\Pi 519$
			STOT DE 2 H272
			A quatia Chronia 2, $H412$
ath an al	$(CACN_{c})$ $(4.17.5)$	5 10	Flow Liz 2 U225
etnanoi	(CAS-NO.) 04-17-5	5 - 10	Flam. Llq. 2, H225
	(EC-INO.) 200-378-0		Eye IIII. 2, H519
		105	
$\frac{2-(3,4-1)}{2}$	(CAS-No.) 3388-04-3	< 0.5	Aquatic Chronic 3, H412
Epoxycycionexyi)etnyitrimetnoxysiiane	(EC-NO.) 222-217-1		Skin Sens. 1, H317
Acrylate Polymer	Trade Secret	1 - 5	Substance not classified as hazardous
2,5-Furandione, reaction products with polypropylene, chlorinated	(CAS-No.) 68609-36-9	1 - 5	Substance not classified as hazardous
bis-[4-(2,3-epoxipropoxi)phenyl]propane	(CAS-No.) 1675-54-3	< 0.5	Skin Irrit. 2, H315
	(EC-No.) 216-823-5		Eye Irrit. 2, H319
			Skin Sens. 1, H317
			Aquatic Chronic 2, H411
methanol	(CAS-No.) 67-56-1	< 0.5	Flam. Liq. 2, H225
	(EC-No.) 200-659-6		Acute Tox. 3, H331
			Acute Tox. 3, H311
			Acute Tox. 3, H301
			STOT SE 1, H370
ethyl acetate	(CAS-No.) 141-78-6	1 - 5	Flam. Liq. 2, H225
	(EC-No.) 205-500-4		Eye Irrit. 2, H319
			STOT SE 3, H336
			EUH066
toluene	(CAS-No.) 108-88-3	< 0.3	Flam. L1q. 2, H225
	(EC-No.) 203-625-9		Asp. Tox. 1, H304
			Skin Irrit. 2, H315
			Repr. 2, H361d
			SIUI SE 3, H330
			SIUI KE 2, H5/3
ah lanah an man a	(CAC No.) 100 00 7		Aquatic Unronic 3, H412
cniorobenzene	(CAS-NO.) 108-90-7	< 0.2	Fiam. L1q. 5, H220
	(EC-NO.) 203-628-5		Acute 10X. 4, H552
			SKIII IIII. 2, H313 A quatia Chronia 2, H411
			Aquatic Unionic 2, H411
malaia anhudrida	(CAS No.) 100 21 (< 0.02	Aqualic Acute 1, $\Pi 400, M=1$
maiere annyunde	(CAS-INO.) 108-31-0	1 > 0.02	LU110/1

(EC-No.) 203-571-6	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317
	STOT RE 1, H372

Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
bis-[4-(2,3-epoxipropoxi)phenyl]propane	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5	(C >= 5%) Skin Irrit. 2, H315 (C >= 5%) Eye Irrit. 2, H319
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6	(C >= 50%) Eye Irrit. 2, H319
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	(C >= 0.001%) Skin Sens. 1A, H317
methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6	(C >= 10%) STOT SE 1, H370 (3% =< C < 10%) STOT SE 2, H371

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

The most important symptoms and effects based on the GB CLP classification include:

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Carbon monoxide	During combustion
Carbon dioxide.	During combustion
Hydrogen Chloride	During combustion

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid

contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
maleic anhydride	108-31-6	UK HSC	TWA: 1 mg/m ³ ; STEL: 3 mg/m ³	Respiratory Sensitizer
toluene	108-88-3	UK HSC	TWA: 191 mg/m ³ (50 ppm); STEL: 384 mg/m ³ (100 ppm)	SKIN
chlorobenzene	108-90-7	UK HSC	TWA:4.7 mg/m3(1 ppm);STEL:14 mg/m3(3 ppm)	SKIN
cyclohexane	110-82-7	UK HSC	TWA:350 mg/m ³ (100 ppm);STEL:1050 mg/m ³ (300 ppm)	
xylene	1330-20-7	UK HSC	TWA:220 mg/m3(50 ppm);STEL:441 mg/m3(100 ppm)	SKIN
ethyl acetate	141-78-6	UK HSC	TWA:734 mg/m3(200 ppm);STEL:1468 mg/m3(400 ppm)	
ethanol	64-17-5	UK HSC	TWA:1920 mg/m ³ (1000 ppm)	
methanol	67-56-1	UK HSC	TWA:266 mg/m3(200 ppm);STEL:333 mg/m3(250 ppm)	SKIN

UK HSC : UK Health and Safety Commission TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

Biological limit values

Ingredient	CAS Nbr	Agency	Determinant	Biological Specimen	Sampling Time	Value	Additional comments
chlorobenzene	108-90- 7	UK EH40 BMGVs	4- Chlorocatecho 1	Creatinine in urine	EOS	5 mmol/mol	
xylene	1330- 20-7	UK EH40 BMGVs	Methyl hippuric acid	Creatinine in urine	EOS	650 mmol/mol	
UK EH40 BMGVs : UK. I	EH40 Biolos	gical Monitoring Gu	idance Values (BM	GVs)			

EOS: End of shift.

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection None required.

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

Breakthrough Time

No data available

Material	Thickness (mm)
Polymer laminate	No data available

Applicable Norms/Standards Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece supplied-air respirator

Than Tacepiece of full facepiece supplied-all respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Applicable Norms/Standards Use a respirator conforming to EN 140 or EN 136

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Specific Physical Form: Colour Odor Odour threshold Melting point/freezing point Boiling point/boiling range

Flammability (solid, gas)

Liquid. Sponge holding approximately 2 milliliters of liquid. Yellow Solvent *No data available. Not applicable.* 73.1 °C [*Test Method:*Tested per ASTM protocol] [*Details:@*760mmHg] Not applicable. Flammable Limits(LEL) Flammable Limits(UEL) Flash point Autoignition temperature Decomposition temperature pH

Kinematic Viscosity Water solubility Solubility- non-water Partition coefficient: n-octanol/water Vapour pressure

Density Relative density Relative Vapour Density

9.2. Other information

9.2.2 Other safety characteristics EU Volatile Organic Compounds Evaporation rate Molecular weight Percent volatile No data available. 6.4 [Test Method:Estimated] [Ref Std:XYLENE=1] Not applicable. approximately 95 %

1.7 [*Test Method*:Estimated] [*Ref Std*:AIR=1]

4.4 - 5 [*Test Method:* Tested per ASTM protocol]

11,092.4 Pa [@ 20 °C] [Test Method: Tested per ASTM

1 % [*Test Method*:Estimated]

430 °C

10 %

protocol] 0.82 g/ml

No data available.

[Details:@23°C]

No data available.

No data available.

0.82 [*Ref Std*:WATER=1]

 $30.5 \text{ mm}^2/\text{sec}$

6% [*Test Method*:Estimated] 1.1 °C [*Test Method*:Setaflash]

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions Hazardous polymerisation will not occur.

10.4 Conditions to avoid Heat. Sparks and/or flames.

10.5 Incompatible materials Strong acids. Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and

Condition

data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

May be harmful in contact with skin. Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value

Overall product	Dermal		No data available; calculated ATE >2,000 - =5,000 mg/kg		
Overall product	Inhalation- Vapour(4 hr)		No data available; calculated ATE >20 - =50 mg/l		
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg		
cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg		
cyclohexane	Inhalation-	Rat	LC50 > 32.9 mg/l		
	Vapour (4				
	hours)				
cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg		
xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg		
xylene	Inhalation-	Rat	LC50 29 mg/l		
	Vapour (4				
	hours)				
xylene	Ingestion	Rat	LD50 3,523 mg/kg		
ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg		
ethanol	Inhalation-	Rat	LC50 124./ mg/l		
	vapour (4				
athanol	Ingestion	Pat	LD50 17 800 mg/kg		
ethyl acetate	Dermal	Rabbit	LD50 > 17,800 mg/kg		
ethyl acetate	Inhalation-	Rat	LC50 70.5 mg/l		
citiyi acciaic	Vapour (4	Rat	10.5 mg/1		
	hours)				
ethyl acetate	Ingestion	Rat	LD50 5.620 mg/kg		
2,5-Furandione, reaction products with polypropylene,	Dermal	Guinea	LD50 > 1,000 mg/kg		
chlorinated		pig			
2,5-Furandione, reaction products with polypropylene, chlorinated	Ingestion	Rat	LD50 > 3,200 mg/kg		
methanol	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg		
methanol	Inhalation- Vapour		LC50 estimated to be 10 - 20 mg/l		
methanol	Ingestion		LD50 estimated to be 50 - 300 mg/kg		
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Dermal	Rabbit	LD50 6,700 mg/kg		
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Inhalation-	Rat	LC50 > 7 mg/l		
	Vapour (4				
	hours)				
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Ingestion	Rat	LD50 13,100 mg/kg		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Dermal	Rat	LD50 > 1,600 mg/kg		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Ingestion	Rat	LD50 > 1,000 mg/kg		
toluene	Dermal	Rat	LD50 12,000 mg/kg		
toluene	Innalation-	Kat	LC50 30 mg/1		
	hours)				
toluene	Ingestion	Rat	LD50 5 550 mg/kg		
chlorobenzene	Dermal	Rabbit	LD50 2.212 mg/kg		
chlorobenzene	Inhalation-	Rat	LC50 16.7 mg/l		
	Vapour (4				
	hours)				
chlorobenzene	Ingestion	Rat	LD50 1,419 mg/kg		
maleic anhydride	Dermal	Rabbit	LD50 2,620 mg/kg		
maleic anhydride	Ingestion	Rat	LD50 1,030 mg/kg		

 $\overline{\text{ATE}}$ = acute toxicity estimate

Skin Corrosion/Irritation

Name		Value
cyclohexane	Rabbit	Mild irritant
xylene	Rabbit	Mild irritant
ethanol	Rabbit	No significant irritation
ethyl acetate	Rabbit	Minimal irritation
2,5-Furandione, reaction products with polypropylene, chlorinated	Guinea	No significant irritation
	pig	

3MTM Adhesion Promoter, PN 06396

methanol	Rabbit	Mild irritant
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Rabbit	Minimal irritation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit	Mild irritant
toluene	Rabbit	Irritant
chlorobenzene	Rabbit	Irritant
maleic anhydride	Human	Corrosive
	and	
	animal	

Serious Eye Damage/Irritation

Name	Species	Value
cyclohexane	Rabbit	Mild irritant
xylene	Rabbit	Mild irritant
ethanol	Rabbit	Severe irritant
ethyl acetate	Rabbit	Mild irritant
2,5-Furandione, reaction products with polypropylene, chlorinated	Professio	Mild irritant
	nal	
	judgemen	
	t	
methanol	Rabbit	Moderate irritant
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Rabbit	No significant irritation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit	Moderate irritant
toluene	Rabbit	Moderate irritant
chlorobenzene	Rabbit	Mild irritant
maleic anhydride	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
ethanol	Human	Not classified
ethyl acetate	Guinea	Not classified
	pig	
methanol	Guinea	Not classified
	pig	
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	similar	Sensitising
	compoun	
	ds	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Human	Sensitising
	and	
	animal	
toluene	Guinea	Not classified
	pig	
chlorobenzene	Multiple	Not classified
	animal	
	species	
maleic anhydride	Multiple	Sensitising
	animal	
	species	

Respiratory Sensitisation

Name	Species	Value
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Human	Not classified
maleic anhydride	Human	Sensitising

Germ Cell Mutagenicity

Name Route		Value
cyclohexane	In Vitro	Not mutagenic
cyclohexane	In vivo	Some positive data exist, but the data are not sufficient for classification

xylene	In Vitro	Not mutagenic
xylene	In vivo	Not mutagenic
ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
ethyl acetate	In Vitro	Not mutagenic
ethyl acetate	In vivo	Not mutagenic
methanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
methanol	In vivo	Some positive data exist, but the data are not sufficient for classification
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	In Vitro	Some positive data exist, but the data are not sufficient for classification
bis-[4-(2,3-epoxipropoxi)phenyl]propane	In vivo	Not mutagenic
bis-[4-(2,3-epoxipropoxi)phenyl]propane	In Vitro	Some positive data exist, but the data are not sufficient for classification
toluene	In Vitro	Not mutagenic
toluene	In vivo	Not mutagenic
chlorobenzene	In Vitro	Not mutagenic
maleic anhydride	In vivo	Not mutagenic
maleic anhydride	In Vitro	Some positive data exist, but the data are not sufficient for classification

Name	Route	Species	Value
xylene	Dermal	Rat	Not carcinogenic
xylene	Ingestion	Multiple animal species	Not carcinogenic
xylene	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
methanol	Inhalation	Multiple animal species	Not carcinogenic
2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
toluene	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
toluene	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
toluene	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
chlorobenzene	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
cyclohexane	Inhalation	Not classified for female reproduction	Rat	NOAEL 24 mg/l	2 generation
cyclohexane	Inhalation	Not classified for male reproduction	Rat	NOAEL 24 mg/l	2 generation
cyclohexane	Inhalation	Not classified for development	Rat	NOAEL 6.9 mg/l	2 generation
xylene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure

xylene	Ingestion	Not classified for development	Mouse	NOAEL Not	during
xylene	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
methanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,600 mg/kg/day	21 days
methanol	Ingestion	Toxic to development	Mouse	LOAEL 4,000 mg/kg/day	during organogenesis
methanol	Inhalation	Toxic to development	Mouse	NOAEL 1.3 mg/l	during organogenesis
2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane	Ingestion	Not classified for development	Rabbit	NOAEL 0.27 mg/kg/day	during organogenesis
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
toluene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
toluene	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.3 mg/l	1 generation
toluene	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
toluene	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse
chlorobenzene	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.07 mg/l	2 generation
chlorobenzene	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	during organogenesis
chlorobenzene	Inhalation	Not classified for development	Rat	NOAEL 2.07 mg/l	2 generation
chlorobenzene	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.07 mg/l	2 generation
maleic anhydride	Ingestion	Not classified for female reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for male reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for development	Rat	NOAEL 140 mg/kg/day	during organogenesis

Lactation

Name	Route	Species	Value
xylene	Ingestion	Mouse	Not classified for effects on or via lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
						Duration
cyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
cyclohexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	Human and	NOAEL Not available	

	1				1	
			classification	anımal		
cyclohexane	Ingestion	central nervous	May cause drowsiness or	Professio	NOAEL Not	
5	U	system depression	dizziness	nal	available	
		system depression	dizziness	in da ana a	available	
				Judgeme		
				nt		
xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3	8 hours
		5 5	0 0		mg/l	
	Tab alation		Mara anna duannin an an	11	NOAEL N-4	
xylene	Innalation	central nervous	May cause drowsiness or	Human	NOAEL NOL	
		system depression	dizziness		available	
xvlene	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	
<u> </u>		····· 5 ·····	data are not sufficient for		available	
					available	
			classification			
xylene	Inhalation	eyes	Not classified	Rat	NOAEL 3.5	not available
					mg/l	
vylene	Inhalation	liver	Not classified	Multiple	NOAEL Not	
xylene	minutation	nvei	i tot elussifieu	·	TILL NOT	
				animal	available	
				species		
xvlene	Ingestion	central nervous	May cause drowsiness or	Multiple	NOAEL Not	
	8	system depression	dizziness	animal	available	
		system depression	uizziness	ammai .	available	
				species		
xylene	Ingestion	eyes	Not classified	Rat	NOAEL 250	not applicable
-	-	-			mg/kg	**
athanal	Inholation	respiratory irritation	Some positive data avist but the	Uuman		not available
ethanoi	minaration	respiratory initiation	Some positive data exist, but the	пишап	LUAEL 9.4	not available
			data are not sufficient for		mg/l	
			classification			
ethanol	Inhalation	central nervous	Not classified	Human	NOAEL not	
entarior	minutation	guatam dampaggian	i tot olubbillou	and	available	
		system depression		and	available	
				anımal		
ethanol	Ingestion	central nervous	Not classified	Multiple	NOAEL not	
	C	system depression		animal	available	
		system depression		amaging	uvulluoie	
	· ·			species		
ethanol	Ingestion	kidney and/or	Not classified	Dog	NOAEL	
		bladder			3,000 mg/kg	
ethyl acetate	Inhalation	central nervous	May cause drowsiness or	Human	NOAFL Not	
emyracetate	minaration			Tuman	NOALL NOt	
		system depression	dizziness		available	
ethyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	
-			data are not sufficient for		available	
			classification			
	T C	. 1			NOATING	
ethyl acetate	Ingestion	central nervous	May cause drowsiness or	Human	NOAEL Not	
		system depression	dizziness		available	
methanol	Inhalation	blindness	Causes damage to organs	Human	NOAEL Not	occupational
					available	evposure
	X 1 1 2			**		exposure
methanol	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL Not	not available
		system depression	dizziness		available	
methanol	Inhalation	respiratory irritation	Some positive data exist but the	Rat	NOAEL Not	6 hours
methanor	minutation	respiratory initiation	data are not sufficient for	rtut	available	onours
					available	
			classification			
methanol	Ingestion	blindness	Causes damage to organs	Human	NOAEL Not	poisoning
	-				available	and/or abuse
methanol	Ingestion	central nervous	May cause drowsiness or	Human	NOAEL Not	noisoning
methanoi	ingestion	contrar nervous		Tuman	INOALL INOU	poisoning
		system depression	aizziness		available	and/or abuse
toluene	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL Not	
		system depression	dizziness		available	
toluene	Inhalation	respiratory irritation	Some positive data exist but the	Human	NOAEL Not	1
widelic	matation	respiratory irritation	Some positive data exist, but the	Tuman	TIOALL NOL	
			data are not sufficient for		available	
			classification			
toluene	Inhalation	immune system	Not classified	Mouse	NOAEL	3 hours
					0.004 mg/l	- 110415
					0.004 IIIg/I	
toluene	Ingestion	central nervous	May cause drowsiness or	Human	NOAEL Not	poisoning
		system depression	dizziness		available	and/or abuse
chlorobenzene	Inhalation	central nervous	May cause drowsiness or	Human	NOAFL Not	
emotobelizene	imatation	avatam darmenier	digginage	Tuman	available	
	<u> </u>	system depression	uizzilless	l	available	
chlorobenzene	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	occupational
			data are not sufficient for		available	exposure
			classification			1 ·
malais autorit 1	Techal C		Man anna anni () ()	II	NOAELNI /	
maleic annydride	Innalation	respiratory irritation	way cause respiratory irritation	Human	NUAEL Not	
		1		1	available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
cyclohexane	Inhalation	liver	Not classified	Rat	NOAEL 24 mg/l	90 days
cyclohexane	Inhalation	auditory system	Not classified	Rat	NOAEL 1.7 mg/l	90 days
cyclohexane	Inhalation	kidney and/or bladder	Not classified	Rabbit	NOAEL 2.7 mg/l	10 weeks
cyclohexane	Inhalation	hematopoietic system	Not classified	Mouse	NOAEL 24 mg/l	14 weeks
cyclohexane	Inhalation	peripheral nervous system	Not classified	Rat	NOAEL 8.6 mg/l	30 weeks
xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
xylene	Inhalation	heart endocrine system gastrointestinal tract hematopoietic system muscles kidney and/or bladder respiratory system	Not classified	Multiple animal species	NOAEL 3.5 mg/l	13 weeks
xylene	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
xylene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
xylene	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
xylene	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
ethanol	Inhalation	hematopoietic system immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
ethyl acetate	Inhalation	endocrine system liver nervous system	Not classified	Rat	NOAEL 0.043 mg/l	90 days
ethyl acetate	Inhalation	hematopoietic system	Not classified	Rabbit	LOAEL 16 mg/l	40 days
ethyl acetate	Ingestion	hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 3,600 mg/kg/day	90 days

methanol	Inhalation	liver	Not classified	Rat	NOAEL 6.55 mg/l	4 weeks
methanol	Inhalation	respiratory system	Not classified	Rat	NOAEL 13.1	6 weeks
methanol	Ingestion	liver nervous system	Not classified	Rat	NOAEL 2,500	90 days
bis-[4-(2,3- epoxipropoxi)phenyl]prop	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	Dermal	nervous system	nervous system Not classified I		NOAEL 1,000 mg/kg/day	13 weeks
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	Ingestion	auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder	uditory system Not classified I teart endocrine system i system i i teart endocrine system i system i i sidney and/or i i		NOAEL 1,000 mg/kg/day	28 days
toluene	Inhalation	auditory system nervous system eyes olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
toluene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2.3 mg/l	15 months
toluene	Inhalation	heart liver kidney and/or bladder	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks
toluene	Inhalation	endocrine system	rine system Not classified		NOAEL 1.1 mg/l	4 weeks
toluene	Inhalation	immune system	Not classified	Mouse	NOAEL Not available	20 days
toluene	Inhalation	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 1.1 mg/l	8 weeks
toluene	Inhalation	hematopoietic system vascular system	Not classified	Human	NOAEL Not available	occupational exposure
toluene	Inhalation	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 11.3 mg/l	15 weeks
toluene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
toluene	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
toluene	Ingestion	liver kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
toluene	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 600 mg/kg/day	14 days
toluene	Ingestion	endocrine system	Not classified	Mouse	NOAEL 105 mg/kg/day	28 days
toluene	Ingestion	immune system	Not classified	Mouse	NOAEL 105 mg/kg/day	4 weeks
chlorobenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.69 mg/l	2 generation
chlorobenzene	Inhalation	liver	Not classified	Rat	NOAEL 2.1 mg/l	2 generation
chlorobenzene	Inhalation	blood	Not classified	Rat	NOAEL 0.35 mg/l	24 weeks
chlorobenzene	Ingestion	bone marrow	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	13 weeks
chlorobenzene	Ingestion	liver	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 188 mg/kg/day	192 days

			classification			
chlorobenzene	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 125 mg/kg/day	13 weeks
chlorobenzene	Ingestion	immune system	Not classified	Rat	NOAEL 750 mg/kg/day	13 weeks
maleic anhydride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.0011 mg/l	6 months
maleic anhydride	Inhalation	endocrine system hematopoietic system nervous system kidney and/or bladder heart liver eyes	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
maleic anhydride	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 55 mg/kg/day	80 days
maleic anhydride	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 250 mg/kg/day	183 days
maleic anhydride	Ingestion	heart nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
maleic anhydride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
maleic anhydride	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 60 mg/kg/day	90 days
maleic anhydride	Ingestion	skin endocrine system immune system eyes respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

Aspiration Hazard

Name	Value
cyclohexane	Aspiration hazard
xylene	Aspiration hazard
toluene	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Туре	Exposure	Test endpoint	Test result
cyclohexane	110-82-7	Bacteria	Experimental	24 hours	IC50	97 mg/l
cyclohexane	110-82-7	Fathead minnow	Experimental	96 hours	LC50	4.53 mg/l
cyclohexane	110-82-7	Water flea	Experimental	48 hours	EC50	0.9 mg/l

xylene	1330-20-7	Activated sludge	Estimated	3 hours	NOEC	157 mg/l
xylene	1330-20-7	Green algae	Estimated	72 hours	EC50	4.36 mg/l
xylene	1330-20-7	Rainbow trout	Estimated	96 hours	LC50	2.6 mg/l
xylene	1330-20-7	Water flea	Estimated	48 hours	EC50	3.82 mg/l
xylene	1330-20-7	Green algae	Estimated	72 hours	NOEC	0.44 mg/l
xylene	1330-20-7	Water flea	Estimated	7 days	NOEC	0.96 mg/l
xylene	1330-20-7	Rainbow trout	Experimental	56 days	NOEC	>1.3 mg/l
ethanol	64-17-5	Fathead minnow	Experimental	96 hours	LC50	14,200 mg/l
ethanol	64-17-5	Fish	Experimental	96 hours	LC50	11,000 mg/l
ethanol	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
ethanol	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
ethanol	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
2,5-Furandione, reaction products with polypropylene, chlorinated	68609-36-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Acrylate Polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan	3388-04-3	Activated sludge	Estimated	30 minutes	IC50	>100 mg/l
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan	3388-04-3	Green algae	Estimated	72 hours	EC50	280 mg/l
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan	3388-04-3	Rainbow trout	Estimated	96 hours	LC50	180 mg/l
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan e	3388-04-3	Water flea	Estimated	48 hours	EC50	20 mg/l
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan e	3388-04-3	Green algae	Estimated	72 hours	NOEC	1 mg/l
bis-[4-(2,3- epoxipropoxi)phen yl]propane	1675-54-3	Activated sludge	Analogous Compound	3 hours	IC50	>100 mg/l
bis-[4-(2,3- epoxipropoxi)phen yl]propane	1675-54-3	Rainbow trout	Estimated	96 hours	LC50	2 mg/l
bis-[4-(2,3- epoxipropoxi)phen yl]propane	1675-54-3	Water flea	Estimated	48 hours	EC50	1.8 mg/l
bis-[4-(2,3- epoxipropoxi)phen yl]propane	1675-54-3	Green algae	Experimental	72 hours	ErC50	>11 mg/l
bis-[4-(2,3- epoxipropoxi)phen	1675-54-3	Green algae	Experimental	72 hours	NOEC	4.2 mg/l

yl]propane						
bis-[4-(2,3- epoxipropoxi)phen vl]propane	1675-54-3	Water flea	Experimental	21 days	NOEC	0.3 mg/l
ethyl acetate	141-78-6	Bacteria	Experimental	18 hours	EC10	2,900 mg/l
ethyl acetate	141-78-6	Fish	Experimental	96 hours	LC50	212.5 mg/l
ethyl acetate	141-78-6	Invertebrate	Experimental	48 hours	EC50	165 mg/l
ethyl acetate	141-78-6	Green algae	Experimental	72 hours	NOEC	>100 mg/l
ethyl acetate	141-78-6	Water flea	Experimental	21 days	NOEC	2.4 mg/l
methanol	67-56-1	Algae or other aquatic plants	Experimental	96 hours	EC50	16.9 mg/l
methanol	67-56-1	Bay mussel	Experimental	96 hours	LC50	15,900 mg/l
methanol	67-56-1	Bluegill	Experimental	96 hours	LC50	15,400 mg/l
methanol	67-56-1	Green algae	Experimental	96 hours	ErC50	22,000 mg/l
methanol	67-56-1	Sediment organism	Experimental	96 hours	LC50	54,890 mg/l
methanol	67-56-1	Water flea	Experimental	48 hours	LC50	3,289 mg/l
methanol	67-56-1	Green algae	Experimental	96 hours	NOEC	9.96 mg/l
methanol	67-56-1	Medaka	Experimental	8.33 days	NOEC	158,000 mg/l
methanol	67-56-1	Water flea	Experimental	21 days	NOEC	122 mg/l
methanol	67-56-1	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
methanol	67-56-1	Barley	Experimental	14 days	EC50	15,492 mg/kg (Dry Weight)
methanol	67-56-1	Redworm	Experimental	63 days	EC50	26,646 mg/kg (Dry Weight)
methanol	67-56-1	Springtail	Experimental	28 days	EC50	5,683 mg/kg (Dry Weight)
toluene	108-88-3	Coho Salmon	Experimental	96 hours	LC50	5.5 mg/l
toluene	108-88-3	Grass Shrimp	Experimental	96 hours	LC50	9.5 mg/l
toluene	108-88-3	Green algae	Experimental	72 hours	EC50	12.5 mg/l
toluene	108-88-3	Leopard frog	Experimental	9 days	LC50	0.39 mg/l
toluene	108-88-3	Pink Salmon	Experimental	96 hours	LC50	6.41 mg/l
toluene	108-88-3	Water flea	Experimental	48 hours	EC50	3.78 mg/l
toluene	108-88-3	Coho Salmon	Experimental	40 days	NOEC	1.39 mg/l
toluene	108-88-3	Diatom	Experimental	72 hours	NOEC	10 mg/l
toluene	108-88-3	Water flea	Experimental	7 days	NOEC	0.74 mg/l
toluene	108-88-3	Activated sludge	Experimental	12 hours	IC50	292 mg/l
toluene	108-88-3	Bacteria	Experimental	16 hours	NOEC	29 mg/l
toluene	108-88-3	Bacteria	Experimental	24 hours	EC50	84 mg/l
toluene	108-88-3	Redworm	Experimental	28 days	LC50	>150 mg per kg of bodyweight

toluene	108-88-3	Soil microbes	Experimental	28 days	NOEC	<26 mg/kg (Dry Weight)
chlorobenzene	108-90-7	Bluegill	Experimental	96 hours	LC50	4.5 mg/l
chlorobenzene	108-90-7	Green algae	Experimental	72 hours	ErC50	11.4 mg/l
chlorobenzene	108-90-7	Midge	Experimental	96 hours	NOEC	0.7 mg/l
chlorobenzene	108-90-7	Water flea	Experimental	48 hours	EC50	0.59 mg/l
chlorobenzene	108-90-7	Green algae	Experimental	72 hours	ErC10	5.8 mg/l
chlorobenzene	108-90-7	Medaka	Experimental	43 days	NOEC	0.247 mg/l
chlorobenzene	108-90-7	Water flea	Experimental	8 days	NOEC	0.084 mg/l
chlorobenzene	108-90-7	Bacteria	Experimental	24 hours	IC50	0.71 mg/l
chlorobenzene	108-90-7	Lettuce	Experimental	14 days	EC50	>1,000 mg/kg (Dry Weight)
maleic anhydride	108-31-6	Bacteria	Experimental	18 hours	EC10	44.6 mg/l
maleic anhydride	108-31-6	Rainbow trout	Experimental	96 hours	LC50	75 mg/l
maleic anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC50	74.4 mg/l
maleic anhydride	108-31-6	Water flea	Hydrolysis Product	48 hours	EC50	93.8 mg/l
maleic anhydride	108-31-6	Water flea	Experimental	21 days	NOEC	10 mg/l
maleic anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC10	11.8 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
cyclohexane	110-82-7	Experimental Biodegradation	28 days	BOD	77 %BOD/ThOD	OECD 301F - Manometric respirometry
cyclohexane	110-82-7	Experimental Photolysis		Photolytic half-life (in air)	4.1 days (t 1/2)	
xylene	1330-20-7	Experimental Biodegradation	28 days	BOD	90- 98 %BOD/ThOD	OECD 301F - Manometric respirometry
xylene	1330-20-7	Experimental Photolysis		Photolytic half-life (in air)	1.4 days (t 1/2)	
ethanol	64-17-5	Experimental Biodegradation	14 days	BOD	89 %BOD/ThOD	OECD 301C - MITI test (I)
2,5-Furandione, reaction products with polypropylene, chlorinated	68609-36-9	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Acrylate Polymer	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan e	3388-04-3	Estimated Biodegradation	28 days	BOD	28 %BOD/ThOD	OECD 301D - Closed bottle test
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan e	3388-04-3	Estimated Hydrolysis		Hydrolytic half-life	6.5 hours (t 1/2)	
bis-[4-(2,3- epoxipropoxi)phen yl]propane	1675-54-3	Experimental Biodegradation	28 days	BOD	5 %BOD/COD	OECD 301F - Manometric respirometry
bis-[4-(2,3- epoxipropoxi)phen	1675-54-3	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	117 hours (t $1/2$)	OECD 111 Hydrolysis func of pH

yl]propane						
ethyl acetate	141-78-6	Experimental Biodegradation	14 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)
ethyl acetate	141-78-6	Experimental Photolysis		Photolytic half-life (in air)	20.0 days (t 1/2)	
methanol	67-56-1	Experimental Biodegradation	3 days	Percent degraded	91 %degraded	
methanol	67-56-1	Experimental Biodegradation	14 days	BOD	92 %BOD/ThOD	OECD 301C - MITI test (I)
methanol	67-56-1	Experimental Photolysis		Photolytic half-life (in air)	35 days (t 1/2)	
methanol	67-56-1	Experimental Soil Metabolism Aerobic	5 days	CO2 evolution	53.4 %CO2 evolution/THCO2 evolution	
toluene	108-88-3	Experimental Biodegradation	20 days	BOD	80 %BOD/ThOD	APHA Std Meth Water/Wastewater
toluene	108-88-3	Experimental Photolysis		Photolytic half-life (in air)	5.2 days (t 1/2)	
chlorobenzene	108-90-7	Experimental Biodegradation	28 days	BOD	15 %BOD/ThOD	OECD 301F - Manometric respirometry
chlorobenzene	108-90-7	Experimental Photolysis		Photolytic half-life (in air)	42 days (t 1/2)	
chlorobenzene	108-90-7	Experimental Biodegradation		Half-life (t 1/2)	46.2 days (t 1/2)	
maleic anhydride	108-31-6	Hydrolysis product Biodegradation	25 days	CO2 evolution	>90 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
maleic anhydride	108-31-6	Experimental Hydrolysis		Hydrolytic half-life	0.37 minutes (t 1/2)	

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
cyclohexane	110-82-7	Experimental BCF - Fish	56 days	Bioaccumulation factor	129	OECD305-Bioconcentration
cyclohexane	110-82-7	Experimental Bioconcentration		Log Kow	3.44	
xylene	1330-20-7	Experimental BCF - Fish	56 days	Bioaccumulation factor	25.9	
ethanol	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	
2,5-Furandione, reaction products with polypropylene, chlorinated	68609-36-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylate Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-(3,4- Epoxycyclohexyl)e thyltrimethoxysilan e	3388-04-3	Estimated Bioconcentration		Bioaccumulation factor	2.3	
bis-[4-(2,3- epoxipropoxi)phen yl]propane	1675-54-3	Experimental Bioconcentration		Log Kow	3.242	OECD 117 log Kow HPLC method
ethyl acetate	141-78-6	Experimental Bioconcentration		Log Kow	0.68	
methanol	67-56-1	Experimental BCF - Fish	3 days	Bioaccumulation factor	<4.5	
methanol	67-56-1	Experimental Bioconcentration		Log Kow	-0.77	
toluene	108-88-3	Experimental BCF - Other	72 hours	Bioaccumulation factor	90	
toluene	108-88-3	Experimental Bioconcentration		Log Kow	2.73	

chlorobenzene	108-90-7	Experimental BCF	56 days	Bioaccumulation	39.6	OECD305-Bioconcentration
		- Fish		factor		
chlorobenzene	108-90-7	Experimental		Log Kow	2.84	
		Bioconcentration				
maleic anhydride	108-31-6	Experimental		Log Kow	-2.61	OECD 107 log Kow shke
		Bioconcentration				flsk mtd

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
cyclohexane	110-82-7	Modeled Mobility in Soil	Koc	770 l/kg	
2-(3,4- Epoxycyclohexyl)et hyltrimethoxysilane	3388-04-3	Estimated Mobility in Soil	Koc	20 l/kg	Episuite [™]
bis-[4-(2,3- epoxipropoxi)pheny l]propane	1675-54-3	Modeled Mobility in Soil	Koc	450 l/kg	Episuite™
methanol	67-56-1	Experimental Mobility in Soil	Koc	0.13 l/kg	
toluene	108-88-3	Experimental Mobility in Soil	Koc	37-160 l/kg	
chlorobenzene	108-90-7	Experimental Mobility in Soil	Koc	140 l/kg	

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Other adverse effects

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

15 02 02* Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

SECTION 14: Transportation information

Ground Transport (ADR) Air Transport (IATA)	Marine Transport (IMDG)
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14.1 UN number	UN3175	UN3175	UN3175
14.2 UN proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(CYCLOHEXANE)	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(CYCLOHEXANE)	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(CYCLOHEXANE)
14.3 Transport hazard class(es)	4.1	4.1	4.1
14.4 Packing group	II	П	II
14.5 Environmental hazards	Not Environmentally Hazardous	Not applicable	Not a Marine Pollutant
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	F1	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Carcinogenicity <u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	Regulation
xylene	1330-20-7	Gr. 3: Not classifiable	International Agency for Research on Cancer
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3	Gr. 3: Not classifiable	International Agency for Research on Cancer
toluene	108-88-3	Gr. 3: Not classifiable	International Agency for Research on Cancer

Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject to Annex XVII of regulation (EC) 1907/2006, as amended for GB, with regard to restrictions on the manufacture, placing on the market and use when present in certain dangerous conditions. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient	CAS Nbr
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3
cyclohexane	110-82-7
methanol	67-56-1
toluene	108-88-3
xylene	1330-20-7

Restriction status: listed in UK REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 as amended for Great Britain for Conditions of Restriction

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

Hazard Categories	Qualifying quantity (tonnes) for the applic	cation of
	Lower-tier requirements	Upper-tier requirements
E1 Hazardous to the Aquatic	100	200
P5c FLAMMABLE LIQUIDS*	5000	50000

*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high

temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of		
		Lower-tier requirements	Upper-tier requirements	
chlorobenzene	108-90-7	10	50	
cyclohexane	110-82-7	10	50	
ethyl acetate	141-78-6	10	50	
ethanol	64-17-5	10	50	
methanol	67-56-1	500	5000	
toluene	108-88-3	10	50	
xylene	1330-20-7	10	50	

Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended for GB.

SECTION 16: Other information

List of relevant H statements

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system sensory
	organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Revision information:

GB Section 02: CLP Ingredient table information was modified. GB Section 15: Carcinogenicity information information was modified. Section 2: <125ml Hazard - Health information was modified. Section 2: <125ml Precautionary - Prevention information was modified. Section 2: <125ml Precautionary - Response information was modified. Label: CLP Classification information was modified. Label: CLP Precautionary - Prevention information was modified. Label: CLP Precautionary - Response information was modified. Section 02: SDS Elements: CLP Supplemental Precautionary Statements information was deleted. Section 3: Composition/ Information of ingredients table information was modified. Section 8: BLV table information was modified. Section 8: Eye protection information information was added. Section 8: Eve/face protection information information was deleted. Section 8: Occupational exposure limit table information was modified. Section 8: Personal Protection - Eye information information was deleted. Section 8: Respiratory protection - recommended respirators information information was modified. Section 11: Acute Toxicity table information was modified. Section 11: Aspiration Hazard Table information was modified. Section 11: Carcinogenicity Table information was modified. Section 11: Germ Cell Mutagenicity Table information was modified. Section 11: Health Effects - Eye information information was modified. Section 11: Reproductive Toxicity Table information was modified. Section 11: Serious Eye Damage/Irritation Table information was modified. Section 11: Skin Corrosion/Irritation Table information was modified. Section 11: Skin Sensitization Table information was modified. Section 11: Target Organs - Repeated Table information was modified. Section 11: Target Organs - Single Table information was modified. Section 12: Component ecotoxicity information information was modified. Section 12: Mobility in soil information information was modified. Section 12: Persistence and Degradability information information was modified. Section 12:Bioccumulative potential information information was modified. Section 15: Seveso Substance Text information was modified. Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.

information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M SDSs for Great Britain are available at www.3M.com/uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.